

## CLAIM AMENDMENTS

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2 1. (Currently Amended) A method comprising:  
3 ~~receiving a video data stream comprising a plurality of portions;~~  
4 ~~performing a scaling operation on the video data stream to produce a~~  
5 ~~plurality of scaled portions wherein the scaling operation comprises a scaling ratio; and~~  
6 ~~varying a density of scaled portions stored in the memory wherein the~~  
7 ~~density is related to the scaling ratio.~~  
8 scaling a first portion and a second portion of image information to  
9 provide a scaled first portion and a scaled second portion, wherein unscaled said first  
10 portion would substantially fill a first memory area; and  
11 storing said scaled first portion and said scaled second portion in said first  
12 memory area.

1 2. (Currently Amended) The method of claim 1, further comprising:  
2 accessing a the scaled first or second portion from the first memory area;  
3 retrieving a data sample from the scaled portion; and  
4 using the data sample in a second scaling operation.

1 3. (Currently Amended) The method of claim 1, further comprising:  
2 dividing ~~the~~ a memory into a plurality of lines;  
3 identifying a line; and  
4 storing a number of scaled portions in the line, wherein scaling the first  
5 portion and the second portion is based on a scaling ratio, and the number is related to the  
6 scaled scaling ratio.

1 4. (Currently Amended) A system comprising:  
2 a memory comprising a number of bytes;  
3 a scaler ~~for performing~~ to perform a scaling operation, the scaling  
4 operation identifiable by a scaling ratio, wherein the scaler ~~receives a data stream~~

5 ~~comprising a plurality of portions and produces a plurality of scaled portions; scales a~~  
6 ~~first portion and a second portion of image information to provide a scaled first portion~~  
7 ~~and a scaled second portion, and unscaled said first portion would substantially fill a first~~  
8 ~~memory area; and~~

9 a memory controller coupled to the memory ~~for storing an amount of~~  
10 ~~scaled portions in the memory, wherein the amount corresponds to the scaling ratio to~~  
11 ~~store said scaled first portion and said scaled second portion in said first memory area.~~

1 5. (Currently Amended) The system of claim 4, wherein the ~~data stream~~  
2 image information is a video data stream.

1 6. (Currently Amended) The system of claim 5, wherein the ~~video data~~  
2 ~~stream~~ image information comprises a plurality of frames and each frame comprises a  
3 predetermined number of bytes.  
4

1 7. (Original) The system of claim 6, wherein the number of bytes in the  
2 memory is smaller than the predetermined number of bytes.

1 8. (Original) The system of claim 4, wherein the scaling operation is a  
2 horizontal scaling operation.

1 9. (Amended) The system of claim 4, further comprising:  
2 a second scaler ~~for performing~~ to perform a second scaling operation,  
3 identifiable by a second scaling ratio.

1           10.   (Original)   The system of claim 9, wherein the second scaling ratio is  
2   identical to the first scaling ratio.

1           11.   (Original)   The system of claim 9, wherein the second scaling  
2   operation is a vertical scaling operation.

1           12.   (Original)   The system of claim 9, further comprising:  
2                   a scaling control unit coupled to the second scaler, wherein the second  
3   scaler further comprises a finite impulse response filter including a plurality of  
4   coefficients and the scaling control unit changes the amount of coefficients in the filter in  
5   relation to the scaling ratio.

1           13.   (Original)   The system of claim 12, wherein the scaling control unit  
2   further comprises a look-up table including coefficient values for changing the amount of  
3   coefficients.

1           14.   (Original)   The system of claim 4, further comprising a first-in-first-  
2   out memory.

1           15.   (Original)   The system of claim 4, wherein the memory is an on-chip  
2   memory.

1           16.   (Currently Amended) An article comprising a medium storing instructions  
2   that, if executed, enable a processor-based system to:

3                   ~~receive a video data stream comprising a plurality of portions;~~

4 ~~perform a scaling operation on the video data stream to produce a scaled~~  
5 ~~video data stream, wherein the scaling operation comprises a scaling ratio; and~~  
6 ~~vary a density of the scaled video data stream stored in the memory~~  
7 ~~wherein the density is related to the scaling ratio.~~  
8 scale a first portion and a second portion of image information to provide  
9 a scaled first portion and a scaled second portion, wherein unscaled said first portion  
10 would substantially fill a first memory area; and  
11 store said scaled first portion and said scaled second portion in said first  
12 memory area.

Al End 1 17. (Currently Amended) The article of claim 16, further storing instructions  
2 that, if executed, enable a processor-based system to:  
3 access a the scaled first or second portion from the first memory area;  
4 retrieve a data sample from the scaled portion; and  
5 use the data sample in a second scaling operation.

1 18. (Currently Amended) The article of claim 16, further storing instructions  
2 that, if executed, enable a processor-based system to:  
3 divide ~~the~~ a memory into a plurality of lines;  
4 identify a line of the plurality of lines; and  
5 store a number of scaled portions in the line, wherein scaling the first  
6 portion and the second portion is based on a scaling ratio, and the number is related to the  
7 scaling ratio.

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